

ORIGINAL
(Red)STATE OF WEST VIRGINIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RESOURCES
CHARLESTON 25305

138464

WATER POLLUTION CONTROL PERMIT

Permit No. IW-6017-78

Date: October 11, 1978

Subject: Industrial Waste - Lagoon Disposal

Location:	Nitro	Kanawha	Kanawha
	(City)	(County)	(Drainage Basin)

To whom it may concern:

This is to certify that Fike Chemicals, Incorporated, P. O. Box 546, Nitro, West Virginia, 25143

is hereby granted a Water Pollution Control Permit to construct and operate a disposal system for industrial waste and conduct remedial work on a disposal system for industrial waste.

This permit is subject to the following terms and conditions:

The information submitted on and with Permit Application No. I-1062, dated the 26th day of June, 1978, and additional information submitted by letters dated August 18, 1978, and August 24, 1978, and the soil information submitted by Technical Testing Laboratories Incorporated, dated September 18, 1978, are all hereby made terms and conditions of this permit with like effect as if all such permit application information were set forth herein.

This Permit shall expire October 11, 1983.

AR100001

LAGOON NO. 3

CONSTRUCTION AND OPERATION

Liner Requirements:

- Two feet of clay shall be placed on the bottom and sides of the lagoon.
- The clay shall have a permeability no greater than 1×10^{-7} cm/sec, in situ.
- The attainment of the required permeability value must be confirmed by lab and/or field tests, and such information forwarded to this Division prior to use of Lagoon No. 3.
- A representative of the Division of Water Resources shall be present during placement of the liner.

Monitoring Requirements:

- Existing monitoring wells designated as No. 1, No. 2 and No. 3 shall be sampled monthly and the analyses submitted within 14 days of the end of each month.
- Required analyses shall include pH, total dissolved solids, suspended solids, total organic carbon, phenol, chemical oxygen demand and chloride.
- A monitoring well shall be placed hydraulically up gradient from the lagoons (east of No. 2 lagoon) for the purpose of establishing baseline ground water quality.

Other Requirements:

- There shall be no discharge to the waters of the State from the No. 3 Lagoon.
- Total influent (waste and precipitation) to the lagoon shall not exceed actual evaporation losses.
- Only those wastes described in the letters dated August 18, 1978, and August 24, 1978, shall be deposited in the facilities approved for use under this Permit.

AR100002

LAGOONS NOS. 1 AND 2

ORIGINAL
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REMEDIAL ACTION

Remedial Work:

- All waste material(s) shall be removed from Lagoons Nos. 1 and 2, and disposed of in an approved manner.
- No. 1 Lagoon shall be completely reclaimed (backfilled and brought back to original grade). Final cover shall be sloped to promote drainage and retard infiltration of water through the contaminated portion of the unsaturated zone.
- No. 2 Lagoon may be rehabilitated for future use, provided that construction is in conformance with "liner" and "other" requirements as described under the construction of Lagoon No. 3.
- Remedial work shall include the determination of the extent of movement of waste material from Lagoons No. 1 and No. 2. The results of this study shall be used to determine the need for further remedial work under this Permit.

Monitoring:

- Same as for Lagoon No. 3.

Other Requirements:

- There shall be no discharge to the waters of the State from Lagoon No. 2, after rehabilitation.
- There shall be no influent to Lagoons No. 1 and No. 2, with the exception that Lagoon No. 2 may be used after rehabilitation.
- Progress reports shall be submitted monthly outlining remedial work completed during that month and also progress on the determination of the extent of movement of wastes from Lagoons No. 1 and No. 2.
- All remedial work shall be completed on or before July 15, 1979.

AR100003

You are reminded that the State of West Virginia, Division of Water Resources reserves the authority to establish limitations at any time as a permit modification which shall follow the procedures afforded under Chapter 20, Article 5A, Section 8, of the Water Pollution Control Act.

The effluent or effluents covered by this permit are to be of such quality so as not to violate present and future water quality criteria adopted by the State Water Resources Board. Further, the effluent quality is to be such that pollution, as defined by Chapter 20, Article 5A of the Code of West Virginia, will not occur in the ground waters of the State as a result of the disposal or discharge of such effluents.

The above-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit; with the plans and specifications submitted with Permit Application No. I-1062, dated the 26 day of June, 1978; with the plan of maintenance and method of operation thereof submitted with such application; and with any present or future rules and regulations duly adopted by the State Water Resources Board.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. I-1062, dated the 26th day of June, 1978, with the plan of maintenance and method of operation thereof submitted with such application, shall constitute grounds for the revocation or suspension of this permit and for the invocation of all the enforcement procedures set forth in Article 5A, Chapter 20 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Article 5A, Chapter 20 of the Code of West Virginia and is transferable under the terms of Section 7 of said article.

By: D. W. [Signature] AR100004

AR100004

TABLE 1.

ORGANIC WASTELOAD TO PROPOSED POND NO. 3
(Not exceeding 2,000 lbs. per day)

ACIDS: Organic Sodium salt of Acetic, Acrylic
Isopentanoic, Methacrylic, Propionic and
other related compounds

ALCOHOLS: (low molecular weight) Butanol,
Ethanol, Isopropanol, Methanol

ALDEHYDES: Formaldehyde, Acetaldehyde, Butyr-
aldehyde

ALIPHATIC AMINES: Mono-, Di- and Trimethylamine;
Ethyl- and Diethylamine; Ethylene- and Propyl-
ene Diamine

ALIPHATIC HYDROCARBONS: Heptane, Hexane and
other similar compounds

AROMATIC AMINES: Aniline, Cyclohexylamine and
Diphenylamine

AROMATIC HYDROCARBONS: Benzene, Toluene, Xylene

CELLOSOLVES, ETHYLENE OXIDE ADDUCTS, GLYCOLS AND
POLYOLS

CHLORINATED HYDROCARBONS: Carbon Tetrachloride,
Dichloroethane, Dichlorohexane, Dichloropropane,
Dichloropropene, Methylene Chloride, Trichloro-
Ethylene

ESTERS: Ethyl Acetate, Ethyl Acrylate, Ethyl Chloro-
acetate, Butyl Acetate and related esters of
Methacrylic Acids and other low molecular weight
acids

FLUOROACETIC ACID salts, esters, and amides

FORMAMIDES AND ACETAMIDES: Diethyl, Dimethyl and
other alkyl substituted

ISOPROPYL PHENYL CARBAMATE

MALEIC ACID: Salts

NITRILES: Acetonitrile, Allyl Cyanide, Crotononitrile

PHENOL

AR100005